

~~1600~~
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APR 16 2001

TECH CENTER 1600/2900

RAW SEQUENCE LISTING

DATE: 03/29/2001

PATENT APPLICATION: US/09/553,094

TIME: 10:25:36

Input Set : D:\AprilCornReg.rpt

Output Set: N:\CRF3\03292001\I553094.raw

ENTERED

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1 <110> APPLICANT: Andersen, Scott E.
2   Fisher, Dane K.
4 <120> TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
5   Plants
7 <130> FILE REFERENCE: 38-21(15503)B
C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/553,094
C--> 9 <141> CURRENT FILING DATE: 2000-04-18
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13 <212> TYPE: DNA
14 <213> ORGANISM: Zea mays
16 <223> OTHER INFORMATION: Clone ID: LIB3061-001-Q1-K2-H1
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24 ctgctgcaac gaccgtttca tcaccacgga ttacatgacc tacatgttca agtacgacac   180
26 cgtgcacggt caatggaagc acatgcgaca ttaccctcaa ggactccaag acgcttcttg   240
28 ttggcgagaa gccggtcacc gtctttggca tcaagaacct ccgagagatt ccgtgatgtg   300
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34 <211> LENGTH: 371
35 <212> TYPE: DNA
36 <213> ORGANISM: Zea mays
38 <223> OTHER INFORMATION: Clone ID: LIB3061-005-Q1-K1-B3
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46 tggccagggt ggccctgcag agcgacgacg tcgagctcgt cgccgtgaac gacccttca   180
48 tcagcaccga ttacatgacc tacatgttca agtatgacac tgtgcacgga cagtggaaagc   240
50 accatgaggt caaggtgaag gactccaaga cccttctctt tggtgagaaa gaggttgctg   300
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62 <223> OTHER INFORMATION: Clone ID: LIB3061-056-Q1-K1-F11
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68 tcaaccctgat ggggaagatc aagatcgga tcaatgggtt cggcaggatc ggaaggctgg   120
70 tggccagggt ggccctgcag agtgacgatg tcgagctcgt cgccgtgaac gacccttca   180
72 tcagcaccga ctacatgacc tacatgttca agtacgacac tgtgcacgga cagtggaaagc   240
74 accatgaagt caaggtgaag gactccaaaa cccttctctt tggtgagaag gaagttgctg   300
76 tgtttggtcg caggaaccct gaggagatc catggggttc ggttggcgct gaatatgttg   328
79 <210> SEQ ID NO: 4
80 <211> LENGTH: 408

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81 <212> TYPE: DNA
82 <213> ORGANISM: Zea mays
84 <223> OTHER INFORMATION: Clone ID: LIB3061-013-Q1-K1-D10
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90 tgtcctccgt ctacgagcct ctcaccctca tggccaagat caagatcggg atcaatgggt 120
92 tcggcaggat cggagggtgt gtggccagggt tggccctgca gagcgacgac gtcgagctcg 180
94 tcgccgtgaa cgacccttcc atcagcaccg attacatgac ctacatgttc aagtatgaca 240
96 ctgtgcacgg acagtggaag caccatgagg tcaaggtgaa ggactccaag acccttctct 300
98 ttggtgagaa ggaggtcgct gtgtttggct gcaggaaccc tgaggagatc ccatggtgct 360
100 cggttggcgc tgaatatgct gtcgagtcta ctggtgtttt cactgacc 408
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104 <211> LENGTH: 417
105 <212> TYPE: DNA
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108 <223> OTHER INFORMATION: Clone ID: LIB3061-011-Q1-K1-H1
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114 tagcagctcc tcacctcat ggccaagatc aagatcggga tcaatgggtt tggcaggatc 120
116 ggaaggctgg tggccagggt ggccctgcag agcgacgacg tcgagctcgt cgccgtgaac 180
118 gacccttcca tcagcaccga ttacatgacc tacatgttca agtatgacac tgtgcacgga 240
120 cagtggaaag accatgaggt caaggtgaag gactccaaga cccttctctt tgggtgagaag 300
122 gaagttgctg tgtttggctg caggaaccct gaggagatcc catgggggtc ggttggcgtc 360
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129 <212> TYPE: DNA
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140 cggagggtgt gtggccagggt tggccctgca gagcgacgac gtcgagctcg tcgccgtgaa 180
142 cgacccttcc atcagcaccg attacatgac ctacatgttc aagtatgaca ctgtgcacgg 240
144 acagtggaag caccatgagg tcaaggtgaa ggactccaag acccttctct ttggtgagaa 300
146 ggaggttgct gtgtttggct gcaggaaccc tgaggagatc ccatgggggt cggttggcgc 360
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155 <212> TYPE: DNA
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164 aggatgtcga gctcgtcgcc gtcaacgacc ccttcacac caggactac atgacctaca 120
166 tgttcaagta cgacaccgtc cagggccact ggaagcacag cgacatcaca ctcaaggact 180
168 ccaagaccct tctcttcggt gacaagcccg tcaccgtctt tggcatcagg aacctgagg 240
170 aaatcccgtg gggtagggtc ggcgctgagt atgtcgtgga gtccaccggc gtcttcactg 300

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172 acaaggacaa ggctgctgca catctcaagg gtggtgccaa gcaagctgat atctctgccc 360
174 caagcaaaga cgcacccatg ttgcaagtgt gtgtcaatga ggacaagtac acctcggatg 420
177 <210> SEQ ID NO: 8
178 <211> LENGTH: 403
179 <212> TYPE: DNA
180 <213> ORGANISM: Zea mays
182 <223> OTHER INFORMATION: unsure at all n locations
183 <223> OTHER INFORMATION: Clone ID: LIB3061-034-Q1-K1-A7
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189 aagatcaaga tcgggatcaa tgggtttggc aggatcggaa ggctggtggc cagggtggcc 120
191 ctgcagagcg acgacgtcga gctcgtcgcc gtgaacgacc ccttcacatg caccgattac 180
193 atgacctaca tgttcaagta tgacactgtg cacggacagt ggaagcacca tgaggtcaag 240
195 gtgaaggact ccaagaccct tctctttggt gagaaggagg ttgctgtgtt tggctgcagg 300
197 aacctctagg agatcccatg gggttcgggt ggcgctgaat atgttgctga gtctactggt 360
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202 <210> SEQ ID NO: 9
203 <211> LENGTH: 334
204 <212> TYPE: DNA
205 <213> ORGANISM: Zea mays
207 <223> OTHER INFORMATION: unsure at all n locations
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216 tcagtggtaa gtgcctttca gagtgtaccg gcatgcccaa aactgaaatt tccggtttag 180
218 atagaattgg gggcgcgga gaaggtgcca tgtgtgtgtt tgtgtgtgtt gcctgtggat 240
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225 <210> SEQ ID NO: 10
226 <211> LENGTH: 370
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228 <213> ORGANISM: Zea mays
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236 ttccaaccca ggggctgtgg gggcgacgaa gaggagcgtg ggcacccctc gcgaggcgga 120
238 tctgaagggtg aagaagggtg tctgtgcgcg cgacctcaac gtccctctcg acgacgcca 180
240 gaagatcacc gacgacaccc gcatccgcgc ctacgtcccc accatcaaagt tcctcctcga 240
242 gaagggcgcc aaggteatcc tcggcagcca cctgtgtcgt gcaaaagggt tcaccctaaa 300
244 gtacagcttg aagcctcttg atccacgctt gtctgagctc cttggagttg aagtcgtgat 360
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264 aagtgaataa ttgacatggg atagcatcag acaagttttg attagactag aagacagcat 240
266 catatttggg cttttggaga gagcacagtt ttgttacaac gctgacacat atgatagcaa 300
268 tgctttccac atggatgggt ttggagggtc tttggttgaa tatatgggta gagaaactga 360
270 aaagctccat gcacagggtt ggaggtacaa gagcccagat gagcaccctt tcttttccaa 420
272 ggatctgcct gagcc 435
275 <210> SEQ ID NO: 12
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277 <212> TYPE: DNA
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288 gatctcgccc ggtggccgca gggtagcagc cgcgttgctt tcggaccagc gccaggaac 180
290 aaggggctcc gcacgggcaa caactccgca acgcccaggg ctaaggaaga gagggttgat 240
292 cgaagtgaat tattgacatt ggatagcatc agacaagttt tgattagact agaagacagc 300
294 atcatatttg gacttttggg gagagcacag ttttgttaca acgctgacac atatgatagc 360
296 aatgctatcc acatggatg 379
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301 <212> TYPE: DNA
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312 tttccctctt tgaataacag cggaaaaactt gacatcttat tggctcaggg caaagagtat 180
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316 ctgatcaata accagaacga gtactgcatg gaagttactc caaagacgct ggctgacgtt 300
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337 accttcgacg atctgagcga ccgctaccac acccaactgc acccaaggct gaatgcctcc 180
339 cagtccctgg agctcgcctt tatcatcgca gagaggctga ggaagaggag gatgcgatcg 240
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345 tggatgac 369
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361 gctaggctag ctgcagctca ggtgcttgct tgagggtgcc tctgctcgtt ggcagccgga 180
363 tcgcctgctg ttggtgcatc tgggtgattaa taatactact atgacagagc catgctctgt 240
365 gaagagtatt agtagcagcg ctcataaaag ctacagttcc gtctctattc tcagctatgt 300
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369 cg 362
372 <210> SEQ ID NO: 16
373 <211> LENGTH: 419
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385 cgcgccgagg tcgccaagct cgaccagatc agcgagaacg agaagtcagg gttcatcagc 180
387 ctctgtgtcac ggtacctcag tggggaggcg gacgagatcg agtggagcaa gatccagacc 240
389 cctacggatg aagtgggtgt gccctacgat accgtcgcgt cgcctcccga agatctcgag 300
391 gagacgaaga agctgctgga taagctcgtt gtgctcaagc ttaacggagg gctcgggacg 360
393 accatgggct gcaactgggc caagtctgtc attgaagtcc gcaatgggtt cacattcct 419
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398 <212> TYPE: DNA
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401 <223> OTHER INFORMATION: Clone ID: LIB3061-026-Q1-K1-D7
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409 gcacggatcg aaaagctttc ggaagtaaac ccgatgcttg gcttcctggt ctgcaggctt 180
411 ggtatatcgt accctgagct aacagaaatg caagcccgtg ccattcttga agctgctata 240
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415 ccgcaggaat tgggacatca ggtggccctt atccgtcaag tcgctaacaa agttttcacc 360
417 agtatgggga aaactattgg gtacaagatc ggaacgatga ttgagattcc cagggcagct 420
419 ctagtggctg a 431
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423 <211> LENGTH: 319
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425 <213> ORGANISM: Zea mays
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437 taccagaggt ctgacttcga aggcattctc cgtgctatgg atggacttcc agtgactatt 240
439 cgacttctgg accctccact acacgagttc ctttcagaag ggaacgtcga ggaaatcgtg 300

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L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:199 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:8
L:199 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:8
L:199 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:8
L:199 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:8
L:212 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:9
L:212 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:9
L:212 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:9
L:212 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:9
L:341 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:14
L:341 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:14
L:341 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:14
L:341 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:14
L:488 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:20
L:488 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:20
L:488 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:20
L:488 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:20
L:861 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:36
L:861 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:36
L:861 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:36
L:861 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:36
L:1090 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:46
L:1090 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:46
L:1090 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:46
L:1090 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:46
L:1143 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:48
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L:1422 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:60
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L:1455 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:61
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L:1578 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:66
L:1578 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:66

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L:1629 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:68
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L:1654 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:69
L:1654 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:69
L:1654 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:69
L:1654 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:69
L:1656 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:69
L:1656 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:69
L:1656 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:69
M:340 Repeated in SeqNo=69
L:1683 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:70
L:1683 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:70
L:1683 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:70
L:1683 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:70
L:1776 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:74
L:1776 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:74
L:1776 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:74
L:1919 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:80
M:340 Repeated in SeqNo=80
L:2010 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:84
L:2065 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:86
M:340 Repeated in SeqNo=86
L:2808 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:116
L:2895 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:120
L:2940 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:122
L:3239 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:135
L:3598 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:150
M:340 Repeated in SeqNo=150
L:4291 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:179
L:5294 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:219
L:5403 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:224
L:5428 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:225
L:5649 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:234
L:5700 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:236
L:5725 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:237
L:5796 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:240
L:5813 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:241
L:6274 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:260
L:6343 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:263
L:6370 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:264
L:6539 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:271
L:6568 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:272
L:6615 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:274
L:6672 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:277
L:6749 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:280

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/553,094

DATE: 03/29/2001
TIME: 10:25:37

Input Set : D:\AprilCornReg.rpt
Output Set: N:\CRF3\03292001\I553094.raw

L:6850 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:284
M:340 Repeated in SeqNo=284
L:6875 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:285
L:7246 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:300
L:7275 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:301

STATISTICS SUMMARY

PATENT APPLICATION: US/09/553,094

DATE: 03/29/2001

TIME: 10:25:38

Input Set : D:\AprilCornReg.rpt

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Number of Corrections: 2

MESSAGE SUMMARY

258 W: 21279 (Mandatory Feature missing)

270 C: 1 (Current Application Number differs)

271 C: 1 (Current Filing Date differs)

340 W: 7093 ((46) "n" or "Xaa" used: Feature required)